

In The Claims:

Claim 1 (Amended Once)

1. Apparatus for sensing characteristics of regions at and under a seafloor,
comprising:

an array comprising a plurality of transducers that each can generate a sonic
beam, and at least one sonic detector that can detect sound;

5 circuitry connected to said plurality of transducers to energize them one at a time
with an electrical pulse to generate a narrow sonic beam, said circuitry connected to
said at least one detector to receive signals representing a sonic echo of each sonic
beam;

10 said plurality of transducers being arranged in at least one row and each of said
pulses has a carrier frequency of at least 200 kHz and modulated by a frequency less
than said carrier frequency to generate a narrow sonic beam.

Claim 9 (Amended Once)

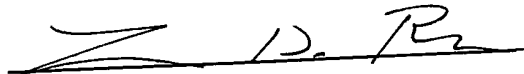
9. The apparatus described in claim 8 wherein:

said circuitry is constructed to energize said transducers with a carrier frequency
of at least about 200 kHz, said transducers are spaced apart by at least about 3.5 cm
and no more than 25 cm, and said at least three detectors include a detector lying
5 adjacent to each transducer.

Respectfully submitted,

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